Europe's leading manufacturer of Golf course equipment.

Ball picker installation/user/maintenance manual

M-series, for model:

21M

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1. General information

1.1 Introduction

Congratulations on your new Oxland product. We hope that you will pick more balls than ever with your new high quality ball picker.
In this instruction manual you will find all the information for the proper use and maintenance of the ball picker.

Note: Be sure to read and understand these instructions before using the ball picker.

Not reading the instruction manual could result in damage to the ball picker and/or shortening of its lifespan. Every user of the ball picker must read and understand these instructions first.

Nothing about this instruction manual may be reproduced unless by written approval of Oxland.

This ball picker has a warranty for one year. Read the guarantee conditions carefully and keep them in a save place. If there are any questions or problems, please contact your dealer.

One Year Warranty

Oxland b.v. hereby warrants the materials and function of its product specified in this instruction manual for a period of one year after delivery. This guarantee only applies to the original purchaser. It also only covers parts which the manufacturer, after inspection, finds to be faulty. Repair or replacement of parts is to be carried out by an authorised representative of the manufacturer. The manufacturer further warrants that the equipment supplied conforms to the accompanying product description.
The guarantees specified in this agreement constitute the manufacturer's only liability to the buyer. The manufacturer disclaims liability for any commitments beyond the limitations of the guarantee certificate.
The manufacturer further disclaims all liability for any commitment that may be given by any unauthorised person in connection with the sale of the equipment. The guarantee does not apply to equipment that has been repaired or parts replaced by any person/company not specifically authorised to do so by the manufacturer. The manufacturer's guarantee liability also does not apply in cases where the equipment is misused, is damaged by negligence/accident or is handled contrary to the accompanying Instructions for Use. Finally, the manufacturer is under no circumstances financially liable for damage that may arise in connection with the sale or repair of the equipment, or injury to a third party in connection with its use.

1.2 Description

This manual describes the 21M ballpicker.
The 21M is a small ballpicker for the difficult accessible areas on the driving range. This model is equipped with **Tour disc**, which is a high quality disc made of lightweight plastic.

1.3 Contact

For information or questions about your ball picker, please contact Oxland.
You can also contact Oxland for other golf course equipment.

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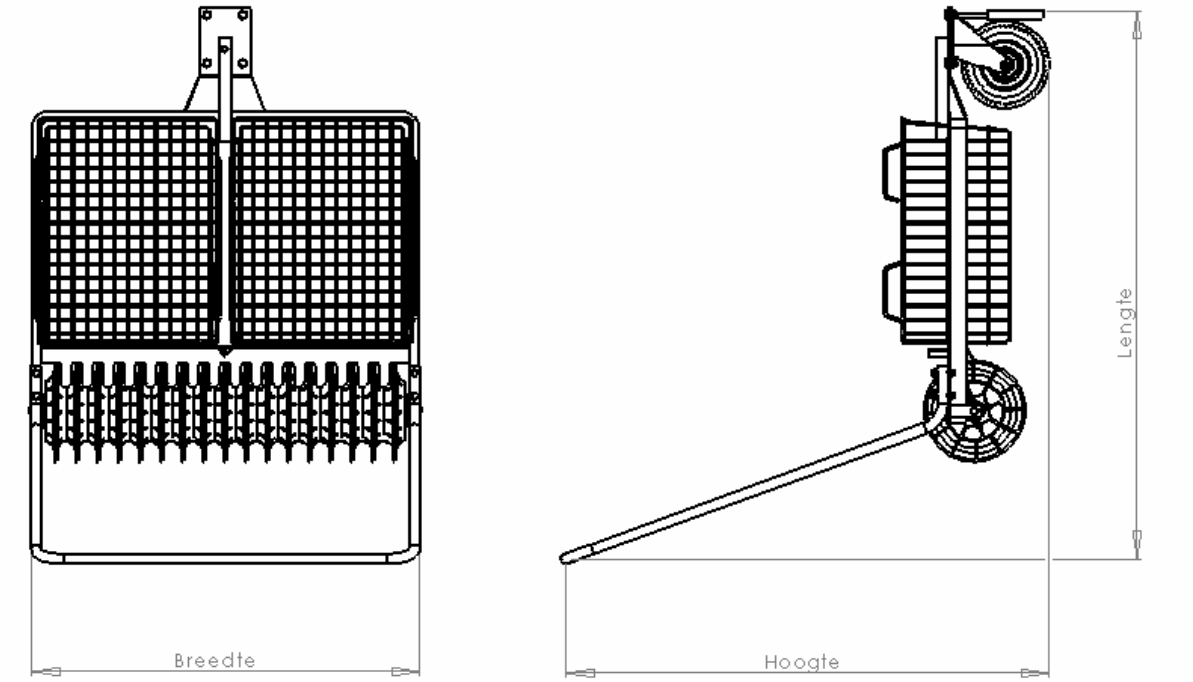
1.4 Technical data

General	21M
No. of sections	1
Capacity	800
Dimensions	
Height (approx.) cm (inch)	105 (42)
Width (approx.) cm (inch)	85 (34)
Length (approx.) cm (inch)	120 (48)
Approx. total weight, with Tour discs empty kg. (lbs.)	30 (70)
Approx total weight, with Tour discs, fully loaded kg. (lbs.)	65 (145)



2. Safety instructions

2.1 General

Safety precautions are a combination of measures implemented during the design stage and those that must be taken by the user. The Machine is designed to function as a ball picker. It is designed to be adjusted and maintained without causing danger to anyone, when such tasks are carried out under the conditions described in this instruction manual. The purpose of these safety precautions are to prevent all risk of accidents during the expected service life of the machine, including assembly and dismantling, even if such risks do arise as a result of abnormal situations.

Parts and accessories, which are not approved by us, could lead to personal injury and/or damage to the machine and reduce the reliability of the machine. Use only recommended Oxland parts and accessories for safety reasons. Those parts and accessories are made especially for our ball pickers. If you need original parts or accessories please contact Oxland.

We are not liable for any damage or injury caused by parts and accessories that are not approved by Oxland.

2.2 Compliance with requirements

Oxland ballpickers comply with the personal safety requirements for ball handling.

2.3 Remaining risks

Whenever applicable:

- When servicing, cleaning or repairing the ball picker, be aware of the sharp edges on the ball picker (e.g. ball guides).

2.4 Permitted use

The ball picker may only be used on the driving range. It may only be used when it is assembled and mounted according to this instruction manual.

2.5 Prohibited use

- Never overload the ball picker by filling more balls than the capacity listed for the ball baskets in the technical data chapter of this instruction manual.
- Never transport persons or goods on the ball picker. This could result in personal injury and/or damage to the ball picker.
- Never use the ball picker for long distance transportation or for transporting anything other than balls picked up on the driving range.
- Modifications to the mechanical functions of the ball picker may only be carried out after consultation with Oxland.
- Avert large holes on the driving range during the picking of balls.

2.6 Operational reliability

For increased operational reliability and service life, we recommend the following:

- Park the ball picker in a covered area when not in use
- Never overload the ball picker by filling more balls than the capacity listed for the ball baskets in the technical data chapter of this instruction manual.

3. Machine management

3.1 Conditions
Anyone doing maintenance on the ball picker must first understand these instructions. If a person has not done any work and/or maintenance for a period of more than three months on a ball picker, the instruction manual must be re-read before doing any work on the ball picker.

4. Design and function

4.1 General
The Oxland ball pickers are designed and build for fast en reliable ball picking.

Every section is made of galvanised steel on which the tour discs are mounted on an axle with bearing blocks.

When using the ball picker on the driving range the balls will be caught between the tour discs and then transported directly into the baskets. Once a ball picking job is finished, the baskets can be taken out from the sections by hand.

5. Installation

Make sure all the parts you need for the ball picker are present by checking the part list as listed in chapter 7.1 on this manual.
If you miss any parts, please contact Oxland and give them the article number(s) of the missing part(s).

To assemble the ball picker the following tools are required:
Wrenches no. 13 and 17

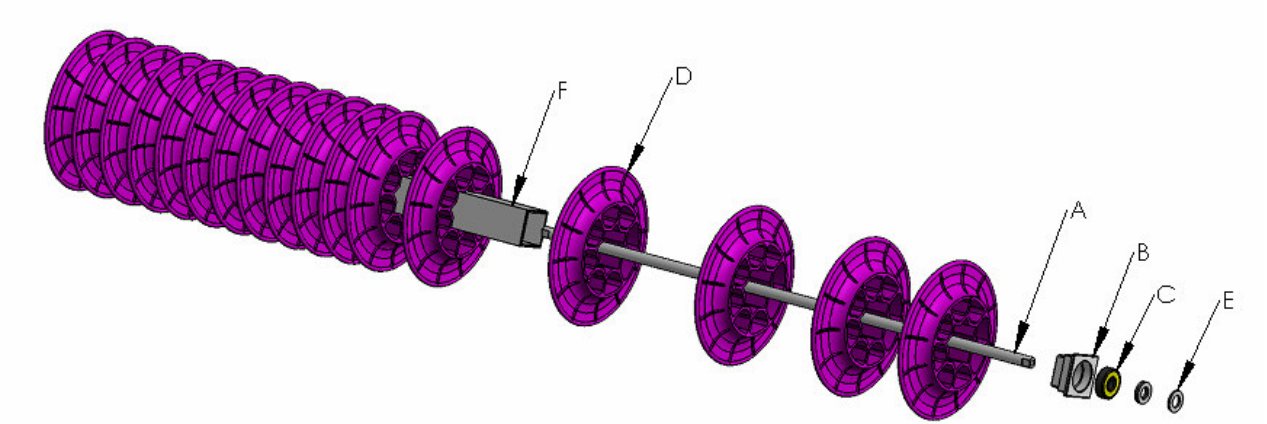
5.1 Installation step by step

When you get your ball picker, step 1 is probably already done.
In case there is some damage, step 1 can be done as follows:

Step 1 Install the axle with tour discs

Parts:

Article No.	Pos.	Description	numbers
900131	A	BP-axle 820	1
900144	B	BP-bearing block V58	2
900122	C	BP-Bearing 6302-RS	2
900143	D	BP-tour disc	17
	E	BP-washer M16	6
900140	F	BP-outer axle 726	1



Start with one BP-tour disc (900143), a bearing block V58 (900144) with a BP-bearing 6302 RS(900122) and the outer axle (900140) (F).
Put the bearing block assy into the BP-tour disc. The outer axle (900140) will fit on the bearing block assy.
After this you can slide the 16 tour discs (900146) on the outer axle (900140). Finish it by putting the other bearing block and the axle on the BP-outer axle.

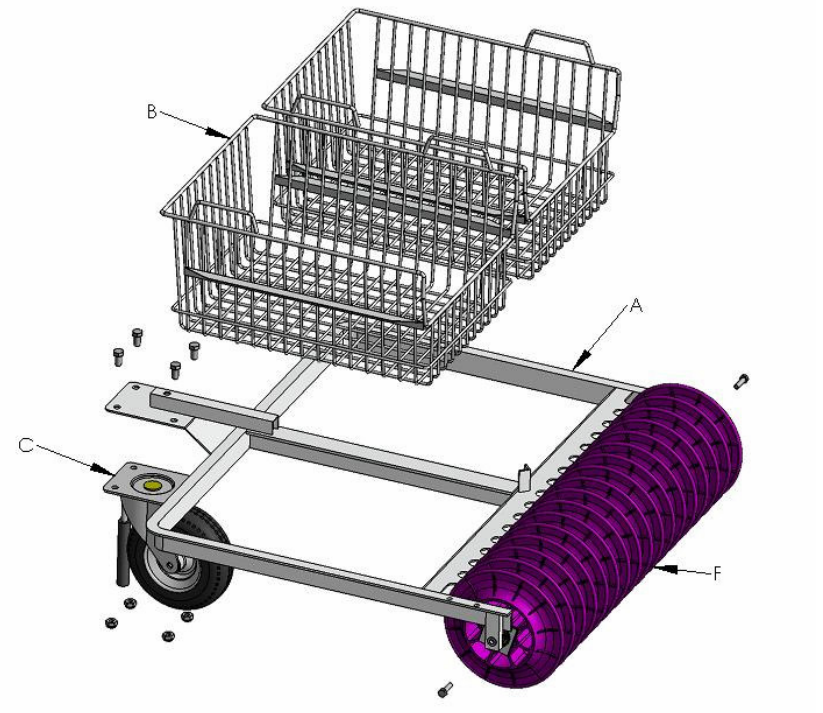
Tips:

- Before sliding the tour discs, make sure the slanting side of the BP-end disc is pointed toward the outer axle. Make sure that you put all the tour discs in the right way. There is a pin on one side of the tour disc and a hole on the other side. Make sure the pins and holes are always aligned.
- When it is difficult to slide the discs on the disc holder put some Teflon spray on the outer axle for easier sliding.

Step 2: Assembly of a section

Parts:

Article No.	Pos.	Description	numbers
900129	A	BP-frame M1 complete	1
900128	B	BP-Baskets	2
900130	C	BP-Swivel castor assy	1
Axle assemble from step 1	F		1



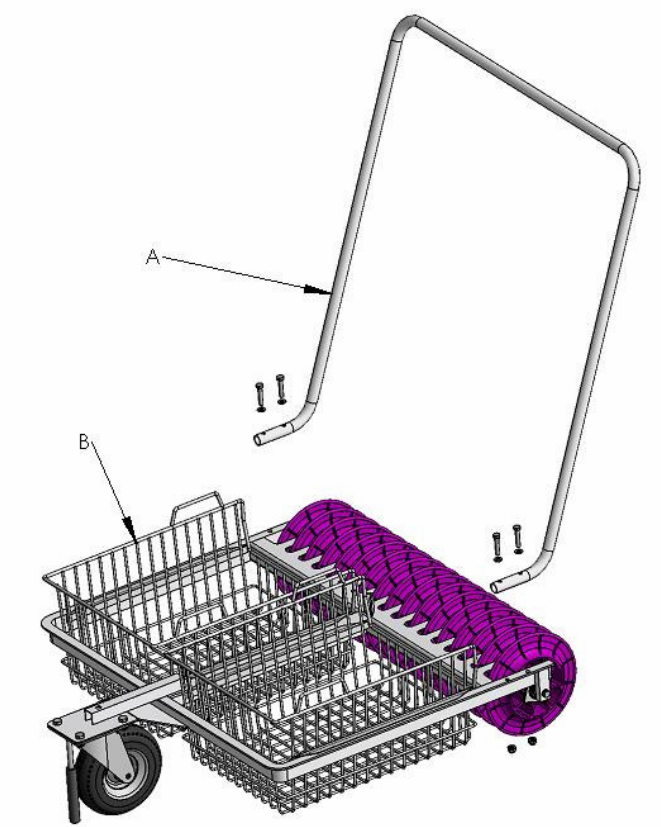
Install the complete axle (F) from step 1 into the frame M1 (900129) (A) with 2 bolts (M8x30), 2 washers (M8) and adhesive (loctite) for fasting the bolts. (for disconnecting make the adhesive warm, then turn the bolt loose). Next, place the swivel castor assy (900130) (C) on the main connector (4 x M10x20), but before placing make sure the bearings of the wheels are greased. Finish the section by putting the basket's (B) into the frame.

Tips:
- Use adhesive (loctite) for the two M8x30 bolts, and allow the adhesive to harden (min. 4 hours) !
- Make sure that the tour discs are positioned in line with the inlets of the frame.
- Assemble the ball guides correctly on the frame.

Step 3: Install the pushrod

Parts:

Article No.	Pos.	Description	numbers
900170	A	BP-Handle	1
Assemble from step 2	B		1



Install the BP-handle (900170) (A) on the assembled frame from step 2 with 4 bolts (M8x30), 8 rings (M8) and 4 nyloc nuts (M8)

21M

6. Maintenance

6.1 General

For a long and good life span you have to check the ball picker regular. Any malfunction that will be discovered on an early stage will be easier to correct. If you have checked the ball picker regularly then the malfunctions and breakdowns can be minimised. We will give you some tips about malfunctions and what to do when they appear.

6.2 Maintenance intervals and instructions

Maintenance intervals

A Every pick-up run
B Every month
C Every season

	Maintenance intervals and instructions	A	B	C
1	**21M**			
1.1	Any object that could have become lodged between the Tour- discs should be removed after every pick-up. These could be stones, broken balls, pinecones etc., which can damage your ball picker or short the life span.	X		
1.2	After pick-up hose down the baskets and discs to remove gravel or sand that could accumulate and cause corrosion of the metal parts and unnecessary wear and tear on the bearings and discs.		X	
1.3	Clean the ball picker at least ones a month when they using artificial fertiliser on the driving range.		X	
1.4	Check that all locking nuts are secure and there are no broken discs		X	
1.5	Check the tyre pressure of the Swivel castor assy (900130). Tyre pressure: 2 Bar or 30 Psi		X	
1.6	In the winter the ball picker must be totally cleaned stored in a frost-free storage area.			X
1.7	Lubricate nuts and bolts and check if they are rusty or damaged, if they are, replace them.			X
1.8	Check the wheel bearings if they are dry, grease them.			X

6.3 What to do with possible malfunctions

The ball picker does not pick up the balls

Check that:
- A section is damaged.
- All baskets are correctly placed in the sections.
- The Tour-discs are undamaged and securely fastened.
- The grass on the driver range is too long so that is covers the balls

The ball picker does not roll properly

Check that:
- The wheels are undamaged.
- The roller bearings are undamaged.
- Nothing has become lodged in the picker roller or on the wheels.
- The ball baskets are undamaged.
- The ball picker is not damaged, resulting in any of its parts scraping on the ground.

6.4 Function tests

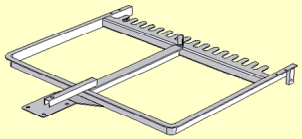
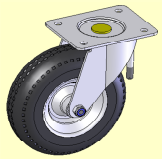
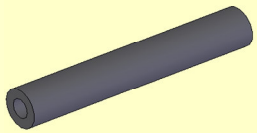
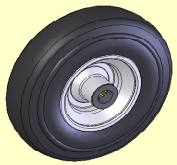
Test the ball picker after repairing or maintenance. Check if the ball picker is functioning correctly by test driving without balls in the baskets.

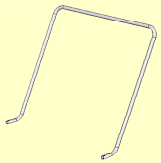
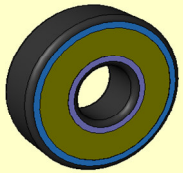
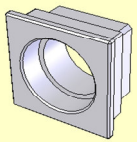
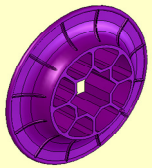
7. Replacement parts

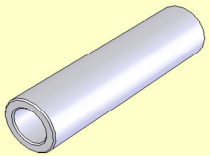
7.1 parts list

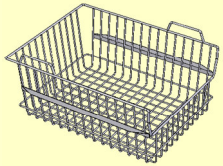
If you need spare parts because of damaging or wear and tear etc, you can contact Oxland for new parts. To prevent mistakes please always use part nos. when ordering.

A = Picture of article
B = Article code
C = Description
D = Quantity 21M

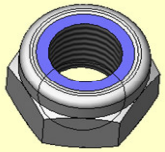
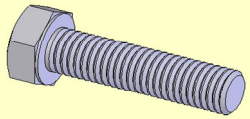
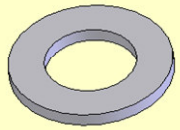
A	B	C	D
	900129	Frame M1	1
	900130	Swivel castor assy	1
	900135	Castor tube R20x8x1 30mm	1
	900132	Tyre and rim assy	

A	B	C	D
	900170	Handle	1
	900122	Bearing	2
	900144	Bearing block V58	2
	900146	Tour disc	17

A	B	C	D
	900133	Rim bearing bush	
	900140	Outer axle 50x50-726	1

A	B	C	D
	900128	Basket	2
	900131	Center axle 820	1

Fastening parts

A	C	D
		
	Nut M8 Nyloc	4
	Nut M10 Nyloc	4
		
	Bolt M8x30	6
	Bolt M10x20	4
	Washer M8	10
	Washer M16	6